

02/14/2005

10/804,106

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FILE 'WPIX, INPADOC, JAPIO' ENTERED AT 13:32:00 ON 14 FEB 2005

E JP2003-120208/AP,PRN

L1

4 S E3-E4

L1 ANSWER 1 OF 4 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
AN 2004-768127 [76] WPIX
DNN N2004-606041
TI Probe coil for nuclear magnetic resonance apparatus, uses magnesium boride superconductor formed on surface of flexible organic polymer substrate that contains no hydrogen atoms.
DC S01 S03 V02
IN KIKUTA, T; MORITA, H; OKADA, M; PARK, M; WAKUDA, T
PA (HITA) HITACHI LTD; (KIKU-I) KIKUTA T; (MORI-I) MORITA H; (OKAD-I) OKADA M; (PARK-I) PARK M; (WAKU-I) WAKUDA T
CYC 34
PI EP 1471363 A2 20041027 (200476)* EN 13
R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV
MC MK NL PL PT RO SE SI SK TR
JP 2004325250 A 20041118 (200476) 13
US 2004212364 A1 20041028 (200476)
ADT EP 1471363 A2 EP 2004-6547 20040318; JP 2004325250 A **JP 2003-120208 20030424**; US 2004212364 A1 US 2004-804106 20040319
PRAI **JP 2003-120208 20030424**
AB EP 1471363 A UPAB: 20041125
NOVELTY - The probe coil (1) uses a magnesium boride superconductor formed on the surface of a substrate made of a flexible organic polymer material that contains no hydrogen atoms.
USE - E.g. saddle type probe coil, bird cage type probe coil, Helmholtz type probe coil, one-turn type probe coil, solenoid type probe coil, pancake type probe coil, etc., for nuclear magnetic resonance (NMR) apparatus which measures spectrum of hydrogen atoms.
ADVANTAGE - Avoids the degradation of characteristics caused by hydrogen while manufacturing the superconductors. Avoids the electromagnetic shield effect by metal sheath of the conductor. Facilitates accurate measurement of the sample.
DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the probe coil for NMR apparatus.
probe coil 1
magnetic field direction 2
glass sample tube 3
sample 4
current leads 5a, 5b
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PRAI JP 2003-120208 20030424

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ICS G01R033-32; H01F006-06

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FA AB; GI

MC EPI: S01-E02A1; S01-E02A8A; S03-E07C; V02-E02X1; V02-F01G; V02-F03B

L1 ANSWER 2 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 251520165 INPADOC ED 20041230 EW 200453 UP 20041230 UW 200453

DT Patent

PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION

PI JP 2004325250 A2 20041118

AI JP 2003-120208 A 20030424

PRAI JP 2003-120208 A 20030424 (EDPR 20041028)

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ICM (7) G01R033-34

ICS (7) G01R033-32; (7) H01F006-06

L1 ANSWER 3 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 248322311 INPADOC ED 20041111 EW 200446 UP 20041209 UW 200450

TI Superconductor probe coil for NMR apparatus.

IN MORITA HIROSHI; OKADA MICHIIYA; WAKUDA TSUYOSHI; KIKUTA TOMOMI; PARK MINSEOK

INS MORITA HIROSHI; OKADA MICHIIYA; WAKUDA TSUYOSHI; KIKUTA TOMOMI; PARK MINSEOK

INA JP; JP; JP; JP; JP

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PA MORITA HIROSHI; OKADA MICHIIYA; WAKUDA TSUYOSHI; KIKUTA TOMOMI; PARK
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PAS MORITA HIROSHI; OKADA MICHIIYA; WAKUDA TSUYOSHI; KIKUTA TOMOMI; PARK
MINSEOK
PAA JP; JP; JP; JP; JP
TL English
DT Patent
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)
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AI US 2004-804106 A 20040319
PRAI JP 2003-120208 A 20030424 (EDPR 20041028)
OSDW 2004-768127
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ICM (7) G01V003-00
EPC G01R33/34; H01F6/06
NCL 324318

L1 ANSWER 4 OF 4 INPADOC COPYRIGHT 2005 EPO on STN

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TL English; French; German
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EIC2800

Irina Speckhard

571 272 25 54

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